

INTERNATIONAL SEARCH REPORT

Int. Patent Application No
PCT/GB 03/05337

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E21B37/00 E21B33/12 E21B33/127

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/162655 A1 (HERN GREGORY L ET AL) 7 November 2002 (2002-11-07) paragraph '0018! - paragraph '0019!; figures 3A,4A	1-5, 10-23
Y	The document is combined with '273 to debate inventive step of claims 8 and 9.	8,9
X	GB 2 335 687 A (JOSEPH BIJUR) 25 June 1925 (1925-06-25) page 12, line 31 -page 13, line 12; figure 5	1-5, 10-23
Y	page 15, line 8 - line 17 page 14, line 4 - line 14 The document is combined with '273 to debate inventive step of claims 8 and 9.	8,9
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

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- *O* document referring to an oral disclosure, use, exhibition or other means
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- *8* document member of the same patent family

Date of the actual completion of the International search

10 May 2004

Date of mailing of the International search report

14/05/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 431 273 B1 (GILLIES IAN ET AL) 13 August 2002 (2002-08-13) column 9, line 10 - line 17 column 7, line 62 - line 63 -----	8,9

INTERNATIONAL SEARCH REPORT

Information on patent family members

Int lonal Application No

PCT/GB 03/05337

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002162655	A1	07-11-2002	AU 3706302 A	07-11-2002
			CA 2384475 A1	03-11-2002
			GB 2375124 A ,B	06-11-2002
			NO 20022096 A	04-11-2002
GB 2335687	A	29-09-1999	NO 991452 A	27-09-1999
			US 6250387 B1	26-06-2001
US 6431273	B1	13-08-2002	CA 2318157 A1	22-07-1999
			EP 1049853 A1	08-11-2000
			WO 9936663 A1	22-07-1999
			GB 2333310 A ,B	21-07-1999
			NO 20003695 A	18-09-2000